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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,023	01/26/2004	Richard M. Podhajny	525.1023-CIP	1299
20311 7590 09/15/2009 LUCAS & MERCANTI, LLP			EXAMINER	
475 PARK AVENUE SOUTH			MERCIER, MELISSA S	
15TH FLOOR NEW YORK.			ART UNIT	PAPER NUMBER
- /			1615	
			NOTIFICATION DATE	DELIVERY MODE
			09/15/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail $\,$ address(es):

info@lmiplaw.com

Application No. Applicant(s) 10/765.023 PODHAJNY, RICHARD M. Office Action Summary Art Unit Examiner MELISSA S. MERCIER 1615 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 18 May 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,2,4,5 and 7-30 is/are pending in the application. to to an authorized forms and a south and a

4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-2, 4-5, 7-30</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d)

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

a)∐ All	b) Some * c) None of:
1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3 □	Copies of the certified copies of the priority documents have been received in this National S

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/95/09 Paper No(s)Mail Date Paper No(s)Mail Date Paper No(s)Mail Date Paper No	Interview Summary (PTO-413) Paper No(s)Mail Date. The Common Paper I Application Other:	
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Application/Control Number: 10/765,023 Page 2

Art Unit: 1615

DETAILED ACTION

In view of the Appeal Brief filed on May 18, 2009, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below.

Withdrawn Rejections

Claim Rejections - 35 USC § 103

The rejection of claims 1-2, 7-8, 14-18, and 29 under 35 U.S.C. 103(a) as being unpatentable over Yokota et al. (US Patent 5,783,570) has been withdrawn in view of Applicants arguments regarding the lack of a teaching of an acid number for the polymer.

Art Unit: 1615

The rejection of claims 1-2, 7-12, 14-19, 21-25, and 29 under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US patent 5,280,054) has been withdrawn in view of Applicants arguments regarding the lack of a teaching of an acid number for the polymer.

The rejection of claims 4-5, 19-20, 26-28, and 30 under 35 U.S.C. 103(a) as being unpatentable over Yokota et al. (US Patent 5,783,570) in view of Lindgren et al. (US Patent 5,603,997) has been withdrawn in view of Applicants arguments regarding the lack of a teaching of an acid number for the polymer.

Newly Applied Rejections

Claim Rejections - 35 USC § 103

Claims 1-2, 7-8, 14-18, 21-25 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokota et al. (US Patent 5,783,570) in view of Smith et al. (US Patent 5,095,058).

Yokota discloses an organic solvent soluble mucopolysaccharide consisting of an ionic complex of at least one mucopolysaccharide and a quaternary phosphonium, an antibacterial antithrombogenic composition comprising said organic solvent-soluble mucopolysaccharide and an organic polymer material, an antibacterial antithrombogenic composition comprising said organic solvent-soluble mucopolysaccharide and an antibacterial agent, and to a medical material comprising said organic solvent-soluble mucopolysaccharide. The organic solvent-soluble mucopolysaccharide, and the antibacterial antithrombogenic composition and medical material containing the same,

Art Unit: 1615

of the present invention, can easily impart antithrombogenicity and antibacterial property to a polymer to be a base material, which properties being maintained not only immediately after preparation of the material but also after long-term elution (Abstract). The organic polymer material may include polyurethane and polyamide, which are both disclosed as preferred polymers (column 3, lines 42-45). The antibacterial agent may include silver zeolite, which is the preferred material (column 3, lines 56-59). The antibacterial agent may be present in the amount of 0.1 to 50 parts by weight relative to 100 parts by weight of the polymer material (column 3, lines 60-64). The composition is disclosed as being an aqueous solution or an aqueous dispersion or in the alternative of water; a weak acidic buffer may be used (column 5, lines 23-45).

Yokota further discloses methods of imparting antibacterial properties by coating a medical material with the composition described above (column 4, lines 30-35 and 42-47). Coating methods include spray, drip, and the like (column 7, lines 40-42).

With regard to the pore size of the zeolite it is the position of the examiner that such limitations so not impart patentability over the prior art. Applicant has expressed in the specification that the limitations such as particle size and pore size are merely the preferred embodiments, and are hence non-critical to the overall patentability of the invention. When taken into consideration that the reference achieves the same goal of a coated material possessing antimicrobial qualities, the particular limitations such as particle size, and pore size are non-critical and would be obvious to a skilled artisan.

Barring a showing of unexpected results regarding the pore size of the claimed invention, the claimed invention cannot be deemed patentably distinct over the prior art.

Art Unit: 1615

With regard to the orientation of the coating layer (discontinuous, continuous) in claim 21 and the thickness of the coating layer, in claims 24-25, it is the position of the examiner that the limitation is non-critical to the patentability of the invention. It is also the position of the examiner that the orientation of the layer (discontinuous or continuous) would be well within the level of ordinary skill in the art to adjust. It would be obvious to a skilled artisan to apply the layer in whichever pattern best suited the application of the packaging material. These two limitation can be achieved through routine experimentation, and modification by those of ordinary skill it the art.

With regard to claim 22-23 that the method of printing is preformed by a particular method, these claims are deemed a product-by-process claim and do not distinguish the claim from the prior art. The prior art provides a composition with identical components, although produced by a different process; the burden is shifted to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product. See In re Marosi, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983).

There is no specific teaching of the acid number of the polymer selected (specification, paragraphs 0030-0032).

Smith discloses aqueous dispersions comprising polyamide resins having improved stability with respect to gelation and phase separation. The dispersion is used in coatings and inks (abstract). The polyamide resins have an acid number of about 40-45 (column 7, lines 49-51). Smith additionally discloses a base can be added to neutralize a resin having residual acid numbers (column 7, lines 53-56).

Art Unit: 1615

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used to polyamide resins disclosed by Smith in the composition of Yokota since it is disclosed the resin does not solidify when allowed to stand, and allows for a stable dispersion.

Applicant is reminded that where the general conditions of the claims are met, burden is shitted to applicant to provide a patentable distinction. Where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. See In re Aller, 220 F.2d 454 105 USPQ 233,235 (CCPA 1955).

Claims 4-5, 19- 20, 26-28, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokota et al. (US Patent 5,783,570) and Smith et al. (US Patent 5,095,058), in view of Lindgren et al. (US Patent 5,603,997).

The teachings of Yokota and Smith are discussed above and applied in the same manner.

Yokota does not disclose the pH of the dispersion, the hydrophobic of the zeolite coating or substrate to which the film is applied to include the substrates of the instant claims.

With regard to claims 4-5, Lindgren discloses zeolite particles reducing the undesirable tastes can be added within a very broad pH range, since the zeolite particles are crystalline and thus an inert nature. A good effect is thus obtained when

Art Unit: 1615

the pH of the suspension before dewatering lies into eh range of about 3.0 up to about 10.0 (column 9, lines 13-25).

With regard to the hydrophobic of the zeolite-coating compound, it is within the level of skill in the art to prepare a hydrophobic coating composition. Also the application and use of such coatings are known in the art as seen in Lindgren et al. (Abstract).

Lindgren further discloses the packaging material may include paper, board, paperboard, plastic, aluminum foil, and textile fabrics, or any combination thereof (column 3, lines 27-37).

It would have been obvious to a person of ordinary skill in the art to utilize a hydrophobic zeolite coating since, the art of food packaging preparation hydrophobic metallic zeolite compositions are used to repel water and reduce mildew on the resulting packaging material (column 5, lines 13 - 47). One of ordinary skill in the art would have a reasonable expectation of success since both references teach the use of zeolites in coatings of packaging materials.

Claims 1-2, 7-12, 14-19, 21-25, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US patent 5,280,054) in view of Hirasa et al. (US Patent 7,414,082).

Sakai disclose a coating composition for use in hydrophilic treatment which is capable of forming a film having improved durability of hydrophilic properties, producing little or no water-eluted material therefrom and having improved mildew proofing

Art Unit: 1615

properties (column 2, lines 36-42). The composition comprises an aqueous silica dispersion comprising acrylate polymers, such as methyl acrylate, ethyl acrylate, propyl acrylate, for example (column 5, lines 10-33). Fungi proof agents, including silver zeolite, can be included (column 11, lines 3-32). The amount of the fungi proof agent is in the range of 1-30% by weight based on the total solids content of the composition (column 111, lines 33-35). The coating composition may also include pH'ing agents. The coating composition can be applied by convention coating methods including dip coating, shower coating, spray coating, roll coating and the like (column 11, lines 11-60-62). It is further disclosed the coating composition is applied by preparing an aqueous bath of the coating composition, which would read on applicant's water-based limitation. The coating has a thickness of 0.2 to 5u (column 12, lines 20-25). The examiner has interpreted printing to including coating techniques disclosed by Sakai.

With regard to the pore size of the zeolite it is the position of the examiner that such limitations so not impart patentability over the prior art. Applicant ahs expressed in the specification that the limitations such as particle size and pore size are merely the preferred embodiments, and are hence non-critical to the overall patentability of the invention. When taken into consideration that the reference achieves the same goal of a coated material possessing antimicrobial qualities, the particular limitations such as particle size, and pore size are non-critical and would be obvious to a skilled artisan.

Barring a showing of unexpected results regarding the pore size of the claimed invention, the claimed invention cannot be deemed patentably distinct over the prior art.

Art Unit: 1615

With regard to the pH of the dispersion, Sakai discloses the use of pH'ing agents; therefore, barring a showing of criticality to the functionality of the dispersion for its intended function, the pH range would be determined through routine experimentation.

With regard to the orientation of the coating layer (discontinuous, continuous) in claim 21 and the thickness of the coating layer, in claims 24-25, it is the position of the examiner that the limitation is non-critical to the patentability of the invention. It is also the position of the examiner that the orientation of the layer (discontinuous or continuous) would be well within the level of ordinary skill in the art to adjust. It would be obvious to a skilled artisan to apply the layer in whichever pattern best suited the application of the packaging material. These two limitation can be achieved through routine experimentation, and modification by those of ordinary skill it the art.

Sakai does not disclose the acid number of the polymers used.

Hirasa discloses printable inks comprising polymers having an acid number of not less than 55 and less than 150 (abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the polymers discloses Hirasa since he discloses polymers with acid numbers within the recited range provide for a composition with a good ink jettability and storage stability, in addition to providing a high print density, rubbing resistance, tolerance to marker, water and light fastness (column 2, lines 1-10).

Application/Control Number: 10/765,023 Page 10

Art Unit: 1615

Conclusion

Due to the new grounds of rejection presented in this office action, this action is made Non-Final. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELISSAS. MERCIER whose telephone number is (571)272-9039. The examiner can normally be reached on 8:00am-4:30pm Mon through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Melissa S Mercier/ Examiner, Art Unit 1615 /MP WOODWARD/ Supervisory Patent Examiner, Art Unit 1615